



3 group consisting of Sobol point sequence, Halton point  
4 sequence, Hammersley point sequence, hyperbolic-cross point  
sequence and generalized Faure sequence.

1 7. A system for structuring a portfolio, comprising:

2 (i) means for calculating a number of potential-loss  
3 function values at points in a domain of stochastic market  
4 factors, the points being obtained from a low-discrepancy  
5 deterministic sequence;

6 (ii) means for determining a cumulative distribution  
7 function of the function values;

8 (iii) means for determining value at risk as one of  
9 the function values corresponding to a specified level of  
10 confidence; and

11 (iv) means for structuring the portfolio depending on  
12 a comparison of the value at risk with a specified target  
13 value.

1 8. The system according to claim 7, wherein the  
2 means for determining the cumulative distribution function  
3 comprises means for sorting the function values.

1 9. The system according to claim 7, wherein the  
2 number of function values is predetermined.

1 10. The system according to claim 7, wherein the  
2 means for calculating comprises means for determining the  
3 number of function values.

1        12. The system according to claim 7, wherein the low-  
2        discrepancy deterministic sequence is selected from the  
3        group consisting of Sobol point sequence, Halton point  
4        sequence, Hammersley point sequence, hyperbolic-cross point  
5        sequence and generalized Faure sequence.

~~(i) calculating potential-loss function values at points in a domain of stochastic market factors, the points being obtained from a low-discrepancy deterministic sequence;~~

9 (iii) determining value at risk as one of the function  
10 values corresponding to a specified level of confidence; and

1           14. The system according to claim 13, wherein, in  
2   determining the cumulative distribution function, the  
3   processor is instructed for sorting the function values.

1        15. The system according to claim 13, wherein the  
2        number of function values is predetermined.

1        16. The system according to claim 13, wherein the  
2 processor is instructed for determining the number of  
3 function values.

1        17. The system according to claim 13, wherein, for  
2 calculating, the processor is instructed for allocating  
3 function evaluations among a plurality of sub-processors.

1        18. The system according to claim 13, wherein the  
2 low-discrepancy deterministic sequence is selected from the  
3 group consisting of Sobol point sequence, Halton point  
4 sequence, Hammersley point sequence, hyperbolic-cross point  
5 sequence and generalized Faure sequence.

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